



ABSTRACT AND BIOGRAPHY

Systems Engineering Tools - 2015 and Beyond

Fifty years ago, teleconferences and microwave ovens were little more than outlandish prophecy. Today few of us can make it though a day without them. These technological advances were only possible because of the increasingly complicated projects to develop and field them. Project managers quickly came to rely on these new technologies for each successive round of complex problems. Computer systems developed for scientific calculations quickly replaced rooms full of drafting tables. Tools developed for the business office were applied to the business of managing projects. Concepts formerly gauged by experience and instinct became precisely measured metrics complete with pie charts. These technologies no longer seem revolutionary, but a new wave of technology is available to the consumer market. MySpace, Facebook, LinkedIn, YouTube, and the iPhone may not become part of the average project update, but the technologies and trends they represent are becoming part of American culture. As project teams, stakeholders, and customers acclimate to these technologies, their expectations and capabilities will evolve. Today's project manager needs to capture the opportunities they present while mitigating their inherent risks.

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Mike Graybill has been a core team member of the NASA Constellation Program Ground & Mission Operations Systems Integration Group since June 2007. In this position, Mike is focused on improving operability and affordability across the Constellation program. He has 12 years experience developing communications hardware and software systems from concept definition through verification and validation testing. Mike has four years of experience managing projects for units in Germany, at a National Security Agency Operations Center, and at the largest US air base in Iraq. He worked for multiple information technology and web-based startup companies developing communications architecture and providing consulting services. He also served as an information manager for an international joint task force based in Djibouti, Africa and for NASA's Constellation Program. Mike holds a MS in Computer Science from Towson University, Maryland, and a MA in Education from the University of Oklahoma.